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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-09-17-47** **Date: 02-08-2019**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.
Agency	:	Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/67/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	31-07-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.05%	–
2	Finess by Air permeablity method (m^2/kg,Min)	293.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(Civil)

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Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2019-09-17-47** **Date: 28-08-2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-07-2019

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 31-07-2019

Environmental Conditions during test : Temperature: 26˚C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Authorized Signatory
Quality Manager

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Bangalore.

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****End of Report****

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-17-47** **Date: 02-08-2019**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.
Agency	:	Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/67/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	30-07-2019
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-07-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	424	424	2.8	97.2	90-100
3	20 mm	5857	6281	41.9	58.1	30-70
4	10 mm	4228	10509	70.1	29.9	10-35
5	4.75 mm	4226	14735	98.2	1.8	0-5
6	Pan	265	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-17-47** **Date: 02-08-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.59	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.22	–

Note:
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Assistant Executive Engineer,
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(NL)

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-17-47** **Date: 01-08-2019**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.
Agency	:	Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.
Customer Reference	:	BBMP/EE/BTP/WO/67/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-2019
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-07-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	275	275	5.5	94.5	90-100
3	10 mm	2751	3026	60.5	39.5	25-55
4	4.75 mm	1750	4776	95.5	4.5	0-10
5	Pan	224	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-17-47** **Date: 01-08-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.21	_
7	Aggregate crushing Value(%)	23.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-09-17-47** **Date: 01-08-2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-07-2019

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 30-07-2019

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-09-17-47 Date: 01-08-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Page 2/2
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TEST RESULTS OF STEEL

Lab ID : **CP-2019-09-17-47** **Date: 05-08-2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-08-2019

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 03-08-2019

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2019-09-17-47** **Date: 17-08-2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-08-2019

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 13/08/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-17-47** **Date: 14/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-08-2019

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	07/08/2019	14/08/2019	151.15 X 151.40 X 149.71	22884	**8.758**	294.7	12.9	12.6
2	Coping Concrete	M15	07/08/2019	14/08/2019	151.40 X 151.57 X 150.61	22946	**8.562**	289.7	12.6	
3	Coping Concrete	M15	07/08/2019	14/08/2019	150.05 X 149.06 X 150.80	22366	**8.181**	277.3	12.4	

Note:

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AE(Ret) N.D

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/09/2019

Lab ID	:	CP-2019-09-17-47
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.
Agency	:	Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/67/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-08-2019
Customer ID	:	Coping Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	07/08/2019	04/09/2019	151.04 X 151.36 X 149.95	22862	**8.745**	404.3	17.7	17.6
2	Coping Concrete	M15	07/08/2019	04/09/2019	150.46 X 149.67 X 149.38	22520	**8.004**	400.8	17.8	
3	Coping Concrete	M15	07/08/2019	04/09/2019	150.38 X 150.06 X 149.86	22567	**8.535**	391.4	17.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-17-47** **Date: 16/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-08-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	149.04 X 151.45 X 150.84	22573	**8.838**	423.4	18.8	18.8
2	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	151.57 X 151.50 X 149.00	22963	**8.824**	431.8	18.8	
3	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	150.66 X 151.77 X 150.73	22865	**8.778**	429.8	18.8	

Note:

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All information furnished by Customer/Representative
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/09/2019

Lab ID : **CP-2019-09-17-47**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-08-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	150.32 X 150.94 X 149.26	22689	**8.876**	526.4	23.2	23.1
2	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	149.54 X 151.65 X 150.75	22677	**8.756**	513.8	22.7	
3	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	151.70 X 149.66 X 151.24	22703	**8.645**	533.3	23.5	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-17-47** **Date: 16/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-08-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	149.13 X 150.33 X 151.37	22420	**8.838**	409.6	18.3	18.6
2	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	151.28 X 149.74 X 149.76	22654	**8.824**	428.5	18.9	
3	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	150.54 X 149.72 X 151.52	22538	**8.778**	417.8	18.5	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
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Yelahanka Zone, B.B.M.P.,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-17-47** **Date: 05/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-08-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	150.03 X 149.33 X 149.87	22404	**8.876**	529.6	23.6	23.5
2	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	149.67 X 151.45 X 151.94	22668	**8.756**	521.1	23.0	
3	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	149.22 X 151.17 X 150.33	22556	**8.645**	536.2	23.8	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro ★ Sig..... Date..... ★ BANGALORE

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Lab ID : **CP-2019-09-17-47** **Date: 16/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-08-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	149.71 X 150.99 X 150.82	22606	**8.838**	423.8	18.7	18.7
2	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	149.46 X 151.72 X 149.27	22676	**8.824**	425.6	18.8	
3	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	150.78 X 151.66 X 149.17	22868	**8.778**	423.3	18.5	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-17-47** **Date: 05/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-08-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	150.39 X 151.44 X 151.24	22776	**8.876**	541.4	23.8	23.3
2	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	151.21 X 151.52 X 151.08	22911	**8.756**	521.4	22.8	
3	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	150.74 X 151.39 X 151.88	22822	**8.645**	531.2	23.3	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(Nov)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig. Date. BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-17-47** **Date: 16/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-08-2019

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	150.04 X 150.53 X 150.89	22586	**8.838**	408.8	18.1	18.3
2	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	151.96 X 149.56 X 149.09	22727	**8.824**	412.5	18.1	
3	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	151.77 X 150.89 X 151.68	22901	**8.778**	428.4	18.7	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(KH)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO BANGALORE Date. Sig.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/09/2019

Lab ID	:	**CP-2019-09-17-47**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.
Agency	:	Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/67/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-2019
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	151.36 X 150.85 X 150.22	22832	**8.876**	526.1	23.0	23.1
2	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	150.90 X 151.85 X 151.62	22914	**8.756**	513.1	22.4	
3	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	149.19 X 151.77 X 149.38	22643	**8.645**	538.8	23.8	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE (Ver)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-17-47** **Date: 20/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	151.11 X 151.98 X 149.52	22966	**8.837**	432.3	18.8	18.7
2	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	150.00 X 149.59 X 150.35	22439	**8.061**	415.1	18.5	
3	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	149.19 X 151.64 X 150.65	22623	**8.029**	426.8	18.9	

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Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P
Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-17-47** **Date: 10/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	151.08 X 149.98 X 149.76	22658	**8.953**	526.4	23.2	23.3
2	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	151.26 X 151.74 X 150.51	22952	**8.506**	526.8	23.0	
3	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	150.93 X 151.97 X 150.17	22938	**8.880**	542.9	23.7	

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(civil)

Assistant Executive Engineer,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-17-47** **Date: 20/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	151.83 X 150.01 X 151.02	22775	**8.837**	420.2	18.4	18.4
2	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	151.66 X 149.83 X 149.32	22723	**8.061**	422.5	18.6	
3	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	150.07 X 149.76 X 149.07	22474	**8.029**	406.2	18.1	

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Quality Manager

A.E (W-21)

Assistant Executive Engineer,
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Jalahalli Zone, B.B.M.P

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/09/2019

Lab ID	:	**CP-2019-09-17-47**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.
Agency	:	Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/67/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	151.90 X 151.17 X 150.14	22963	**8.953**	537.9	23.4	23.0
2	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	150.08 X 149.62 X 150.52	22455	**8.506**	501.9	22.4	
3	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	150.43 X 149.61 X 151.84	22505	**8.880**	523.9	23.3	

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(Ret)

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-17-47** **Date: 20/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	149.91 X 151.95 X 150.86	22779	**8.837**	429.2	18.8	18.9
2	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	151.03 X 151.59 X 149.13	22894	**8.061**	432.5	18.9	
3	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	151.79 X 151.38 X 150.30	22978	**8.029**	434.2	18.9	

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AE(W2)

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/09/2019

Lab ID	:	**CP-2019-09-17-47**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.
Agency	:	Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/67/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	149.77 X 150.31 X 150.20	22511	**8.953**	527.5	23.4	23.1
2	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	150.10 X 150.48 X 149.40	22588	**8.506**	506.3	22.4	
3	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	151.14 X 151.59 X 150.82	22913	**8.880**	539.0	23.5	

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Quality Manager

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Lab ID : **CP-2019-09-17-47** **Date: 20/08/2019**

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Address : Kodigehalli Sub Division, BBMP, Bangalore.

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Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	149.32 X 149.47 X 149.88	22318	**8.837**	407.8	18.3	18.3
2	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	151.02 X 151.41 X 149.03	22865	**8.061**	423.7	18.5	
3	Drain Side Wall Concrete	M20	13/08/2019	20/08/2019	150.41 X 149.61 X 151.32	22502	**8.029**	406.6	18.1	

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R KARTHIK RECHAN
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Quality Manager

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P

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Lab ID : **CP-2019-09-17-47** **Date: 10/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of 20th Main-3rd Cross Road of G Block Sahakaranagara and Byatarayanapura Gramatana in Ward No.07, Byatarayanapura.

Agency : Sri.M.Lakshminarayana No:354, 5th A Cross, K.H.Road, Saradhambanagara Jalahalli , Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/67/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	151.11 X 150.71 X 151.19	22774	**8.953**	532.7	23.4	23.2
2	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	150.93 X 151.83 X 151.01	22915	**8.506**	525.0	22.9	
3	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	150.20 X 150.04 X 150.01	22536	**8.880**	524.4	23.3	

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